

# DENSITRON

# ALPHANUMERIC QUICK REFERENCE SELECTION GUIDE

5\*7 DOT MATRIX WITH CURSOR, LARGE CHARACTER, WIDE VIEWING ANGLE, SUNLIGHT/RIGHT READABILITY WITH E-L BACKUP LIGHTING.

LOD DOT MATRIX DISPLAY  
XY DRIVER AND CONTROLLER

LM73X4C16CX FOR  
COMPACT DESIGN  
4 LINE 16 CHARA.  
DISPLAY MODULE

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# DENSITRON ALPHANUMERIC CHARACTER MODULES SELECTION GUIDE

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Format	Model #	Overall Size			Viewing Area		Char. Height	TN			NTN		STN			Backlight Type (mA TYP)	Suggested Backlight Inverter #
		W	H	D	W	H		+5	W	H	+5	H	+5	±5	H		
1 x 8	LM65	58.0	32.0	12.0	35.0	15.0	4.51			X			X			EL	DAS5V4
	LM465	58.0	32.0	14.0	35.0	15.0	4.45	X		X			X			LED (72)	
1 x 16	LM12	85.0	36.0	12.0	63.5	15.8	5.55			X			X			EL	DAS5V4
	LM71 *	115.0	35.0	10.0	99.0	13.0	8.01			X			X	X		EL	DAS5V4
	LM301	151.0	40.0	9.3	120.0	23.0	12.71	X		X				X	X	EL	DAS5V7
	LM407 *	85.0	36.0	14.0	63.5	15.8	5.55			X				X		LED (85)	
	LM412	85.0	36.0	14.0	63.5	15.8	5.55			X						LED (170)	
	LM431	151.0	40.0	14.6	120.0	23.0	12.71			X				X	X	LED (80)	
	LM2012	85.0	36.0	9.6	63.5	13.8	5.20	X		X						EL	DAS5V4
	LM2015	80.0	36.0	11.0	64.5	13.8	5.20	X		X	X	X				EL	DAS5V4
	LM2020 *	80.0	36.0	11.0	64.5	13.8	5.20	X		X	X	X				EL	DAS5V4
	LM2128 *	122.2	33.2	11.0	99.0	13.0	8.06	X		X	X					EL	DAS5V4
	LM2617	81.0	30.0	9.2	45.0	12.0	4.73	X		X		X					
	LM4012	85.0	36.0	12.5	63.5	13.8	5.20	X		X						LED (40)	
	LM4015	80.0	36.0	12.0	64.5	13.8	5.20	X		X	X	X				LED (40)	
	LM4020 *	80.0	36.0	12.5	64.5	13.8	5.20	X		X	X	X				LED (40)	
	LM4220	80.0	36.0	12.5	64.5	13.8	5.20	X		X	X	X				LED (120)	
	LM4617	81.0	30.0	10.5	45.0	12.0	4.73	X		X		X				LED (20)	
	LM4828 *	122.2	33.2	14.0	99.0	13.0	8.06	X		X	X					LED (190)	
1 X 20	LM302	180.0	40.0	9.3	149.0	23.0	12.71	X		X				X	X	EL	DAS5V7
	LM432	180.0	40.0	14.6	149.0	23.0	12.71	X		X				X	X	LED (100)	
1 X 24	LM13	118.0	36.0	13.0	93.5	15.8	5.55						X			EL	DAS5V4
	LM303	208.0	40.0	9.3	178.0	23.0	12.71	X		X				X	X	EL	DAS5V7
	LM413	118.0	36.0	14.0	93.5	15.8	5.55	X		X						LED (190)	
	LM433	208.0	40.0	14.6	178.0	23.0	12.71	X		X				X	X	LED (120)	
1 X 40	LM14	182.0	33.5	13.0	154.5	15.8	5.55			X			X			EL	DAS5V4
	LM414	182.0	33.5	16.0	154.5	15.8	5.55	X		X			X			LED (180)	
	LM2131	182.0	33.5	11.2	152.2	16.5	5.20	X								EL	DAS5V4
	LM4131	182.0	33.5	14.3	152.2	16.5	5.20	X								LED (450)	
2 X 8	LM70	58.0	32.0	12.0	35.0	15.0	3.80			X			X	X		EL	DAS5V4
	LM470	58.0	32.0	14.0	35.0	15.0	3.80	X		X			X	X		LED (72)	
2 X 12	LM2212	55.7	32.0	10.5	45.2	15.5	4.95				X	X				EL	DAS5V4
	LM4212	55.7	32.0	12.0	45.2	15.5	4.95				X	X				LED (80)	
2 X 16	LM22	85.0	36.0	12.0	63.5	15.8	4.51			X			X	X		EL	DAS5V4
	LM66	84.0	44.0	15.0	61.0	15.8	4.85			X			X	X		EL	DAS5V4
	LM304	151.0	40.0	9.3	120.0	23.0	8.44		X	X				X	X	EL	DAS5V7
	LM422	85.0	36.0	14.0	63.5	15.8	4.41	X		X			X	X		LED (170)	
	LM434	151.0	40.0	14.6	120.0	23.0	8.44		X	X				X	X	LED (80)	
	LM2000	80.0	36.0	11.0	64.5	13.8	3.80	X			X	X				EL	DAS5V4
	LM2016	84.0	44.0	11.0	61.0	16.0	4.85	X		X	X	X				EL	DAS5V4
	LM2022	85.0	36.0	10.3	63.5	15.8	4.85	X		X	X	X				EL	DAS5V4
	LM2162	85.0	30.0	9.0	62.0	16.0	4.86	X			X					EL	DAS5V4
	LM2230	122.0	44.0	12.0	99.0	24.0	8.06	X		X	X	X				EL	DAS5V4
	LM2232	131.0	38.0	12.0	99.0	24.0	8.06	X		X	X	X				EL	DAS5V4

Dimensions in mm

TN = Twisted Nematic

STN = Supertwisted Nematic

H = Extended Temp Option (+/- 5V)

NTN = New Twisted Nematic W = Wide Angle TN (+/- 5V)

\* = Operate as 2X8 Modules Cheaper Single Chip Solution

# EL Backlights are warranted only when used with DENSITRON inverters

# DENSITRON ALPHANUMERIC CHARACTER MODULES SELECTION GUIDE

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Format	Model #	Overall Size			Viewing Area		Char. Height	TN			NTN		STN			Backlight Type (mA TYP)	Suggested Backlight Inverter #
		W	H	D	W	H		+5	W	H	+5	H	+5	±5	H		
2 x 16 CONT.	LM4000	80.0	36.0	12.3	64.5	13.8	3.80	X				X				LED (40)	
	LM4016	84.0	44.0	12.0	61.0	16.0	4.85	X		X	X	X				LED (60)	
	LM4022	85.0	36.0	12.0	63.5	15.8	4.85	X		X	X	X				LED (60)	
	LM4162	85.0	36.0	12.0	62.0	16.0	4.86	X								LED (60)	
	LM4262	85.0	36.0	12.0	62.0	16.0	4.86	X								LED (120)	
	LM4216	84.0	44.0	14.3	61.0	16.0	4.85	X		X	X	X				LED (120)	
	LM4222	85.0	36.0	13.9	63.5	15.8	4.85	X		X	X	X				LED (120)	
	LM4232	131.0	38.0	14.3	99.0	24.0	8.06	X		X	X	X				LED (380)	
	LM4830	122.0	44.0	14.3	99.0	24.0	8.06	X		X	X	X				LED (380)	
2 x 20	LM69	116.0	37.0	13.0	83.0	18.6	4.85						X	X		EL	DAS5V4
	LM305	180.0	40.0	9.3	149.0	23.0	8.44		X	X	X			X	X	EL	DAS5V4
	LM435	180.0	40.0	14.6	149.0	23.0	8.44		X	X				X	X	LED(100)	
	LM469	116.0	37.0	16.0	83.0	18.6	4.85						X			LED(170)	
	LM2215	116.2	44.2	11.0	82.8	18.5	4.85	X		X						EL	DAS5V4
	LM4215	116.2	44.2	14.0	82.8	18.5	4.85	X		X						LED (130)	
	LM2261	116.0	37.0	11.0	85.0	18.6	4.85	X		X	X	X				EL	DAS5V4
	LM2305	180.0	40.0	11.0	149.0	23.0	8.44	X		X	X						
	LM4261	116.0	37.0	15.3	85.0	18.6	4.85	X		X	X	X				LED(130)	
	LM4305	180.0	40.0	16.5	149.0	23.0	8.44	X		X	X					LED(300)	
2 x 24	LM23	118.0	36.0	13.0	93.5	15.8	4.51			X			X	X		EL	DAS5V4
	LM306	208.0	40.0	9.3	178.0	23.0	8.44		X	X				X	X	EL	DAS5V7
	LM423	118.0	36.0	14.0	93.5	15.8	4.51	X		X			X	X		LED (190)	
	LM436	208.0	40.0	14.6	178.0	23.0	8.44		X	X				X	X	LED (120)	
	LM2227	118.0	36.0	11.0	93.5	15.8	4.85	X		X	X	X				EL	DAS5V4
	LM4227	118.0	36.0	14.9	93.5	15.8	4.85	X		X	X	X				LED (170)	
2 x 40	LM24	182.0	33.5	13.0	154.5	15.8	4.51			X			X	X		EL	DAS5V4
	LM424	182.0	33.5	16.0	154.5	15.8	4.51	X		X			X	X		LED (180)	
	LM780	285.0	56.0	12.0	245.0	38.0	12.69		X	X				X		EL	DAS5V8
	LM2218	182.0	33.6	11.2	152.2	16.5	4.8	X		X	X	X				EL	DAS5V4
	LM2402	149.4	27.0	8.1	130.8	13.2	4.03	X		X						EL	DAS5V4
	LM4218	182.0	33.6	14.3	152.2	16.5	4.85	X		X	X	X				LED (270)	
	LM4402	149.4	27.0	14.6	130.8	13.2	4.01	X		X						LED (300)	
4 x 16	LM103	87.0	60.0	14.0	61.8	25.2	4.15						X	X		EL	DAS5V4
	LM2433	87.0	60.0	11.0	61.8	25.2	4.15	X		X	X	X				EL	DAS5V4
	LM4416	87.0	60.0	14.0	61.8	25.2	4.15	X		X	X	X				LED (480)	
	LM4433	87.0	60.0	12.5	61.8	25.2	4.15	X		X	X	X				LED (80)	
4 X 20	LM2043	77.0	47.0	11.5	58.6	21.1	3.51	X		X	X					EL	DAS5V4
	LM2434	98.8	60.2	11.0	76.0	25.3	4.15	X		X	X	X				EL	DAS5V7
	LM4043	77.0	47.0	16.0	58.6	21.1	3.51	X		X	X					LED (300)	
	LM4821	98.8	60.2	14.0	76.0	25.3	4.15	X		X	X	X				LED (300)	
	LM4434	98.0	60.2	12.5	76.0	25.3	4.15	X		X	X	X				LED (80)	
4 x 40	LM44	215.0	60.0	17.5	160.0	34.0	4.85						X			EL	DAS5V8
	LM790	280.0	88.0	13.0	244.0	68.0	12.69		X	X			X			EL	DAS5V12
	LM2457	190.0	54.0	11.0	147.0	29.5	4.27			X	X	X				EL	DAS5V10
	LM2790	280.0	88.0	11.0	244.0	68.2	12.69	X		X	X	X					
	LM4790	280.0	88.0	16.0	244.0	68.2	12.69	X		X	X	X				LED (500)	
	LM4857	190.0	54.0	14.9	147.0	29.5	4.27			X	X	X				LED (280 @ 12V)	
	LM4857LV	190.0	54.0	14.9	147.0	29.5	4.27			X	X	X				LED (650 @ 5V)	

Specifications subject to change without notice. Refer to individual specifications for details.

Value added options such as connectors, cables and other options also available.



# DENSITRON'S PRODUCT LINES

- ☀ Solenoids      ☀ Stepper Motors      ☀ Fans      ☀ Air Motors
- ☀ DC Motors & Gearmotors      ☀ Rapidot      ☀ Smart Cards
- ☀ A/N Displays      ☀ Graphic Displays      ☀ B&W or Color Flat Terminals
- ☀ Plasma Displays      ☀ Low Radiation Monitors

YOUR LOCAL AGENT



## DENSITRON INTERNATIONAL OFFICES

**DENSITRON CORPORATION AMERICA (Western Region)** 3425 W. Lomita Blvd. - Torrance, CA 90505  
Phone: (310) 530-3530 Facsimile: (310) 534-8419

**DENSITRON CORPORATION AMERICA (Eastern Region)** 2039 Hwy. 1 South - Camden, SC 29020  
Phone: (803) 432-5006 Facsimile: (803) 432-1165

**DENSITRON EUROPE LIMITED (UK)** Unit 4, Airport Trading Estate, Biggin Hill, Westerham, Kent TN16 3BW England  
Phone: (0959) 571011/76600 Facsimile: (0959) 571017 Telex: 957353

**DENSITRON FRANCE** 5 RUE Montespan, 91024 Evry Cedex, France  
Phone: (60) 774848 Facsimile: (60) 775809

**DENSITRON ITALIA (ITALY)** Piazza Carbonari, 12, 20125 Milano, Italy  
Phone: (02) 392 667 10822 Facsimile: (02) 392 667 10695

**DENSITRON GERMANY** Dompfaffweg 10, 8000 Munchen 82, Germany  
Phone: (89) 430-1050 Facsimile: (89) 439-1884

**DENSITRON CORPORATION (JAPAN)** Kyowa Nanabankan 5F No 1-11-5 Omori Kita, Ota-ku, Tokyo 143 Japan  
Phone: (03) 3767-9701-8 Facsimile: (03) 3767-9709 (G2/G3) Telex: J26914 Densitron

**DENSITRON TAIWAN** 6F-5 NO. 77 Sec.2 Keelung Rd. Taiwan, ROC  
Phone: (02) 886-2-738-2232 Facsimile: (02) 886-2-738-5588

**DENSITRON AUSTRALIA** 119 Willoughby Rd. Crows Nest 2065 N.S.W. Australia  
Phone: (02) 906-7261 Facsimile: (02) 901-3166